Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A weighing scale comprising:

a platform for supporting a load to be weighed by the scale, the platform defining an optimal weighing position for optimally positioning the load thereon;

a plurality of load cells, each of the load cells for sensing a portion of the load's weight and outputting an electrical signal containing data indicative of the sensed portion of the load's weight;[[and]]

a processor, using the data contained in the electrical signals outputted by the load cells, for operatively coupled to the load cells and summing each of the sensed weight portions to determine determining a total weight of the load, summing groupings of the sensed weight portions to determine determining an actual position of the load on the platform, and determining how the actual position of the load on the platform deviates from the optimal position dependently upon the sums of the groupings of the sensed weight portions; and

at least one of an indicator for indicating that the load is in the optimal position and a display for displaying the deviation of the actual position of the load from the optimal weighing position, so that the load can be repositioned to the optimal weighing position.

2. (Cancelled)

- 3. (Original) The scale according to claim 1, wherein the actual position is determined by calculating an x-axis load position offset using the sensed weight portions.
- 4. (Currently Amended) The scale according to claim 3, wherein the platform is divided into quadrants comprising a top left quadrant, a top right quadrant, a bottom left quadrant, and a bottom right quadrant, the x-axis offset being calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and bottom left quadrants and b) an aggregate of the top right and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by [[a]] the half weight of the load.

- 5. (Original) The scale according to claim 3, wherein the deviation of the actual position of the load from the optimal position is determined by comparing the x-axis offset to a predetermined threshold value to determine whether a disproportionate quantity of the load's weight is on one of a left side and a right side of the scale.
- 6. (Original) The scale according to claim 1, wherein the actual position is determined by calculating x-axis and y-axis load position offsets using the sensed weight portions.
- 7. (Currently Amended) The scale according to claim 6, wherein the platform is divided into quadrants comprising a top left quadrant, a top right quadrant, a bottom left quadrant, and a bottom right quadrant, the x-axis offset being calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and bottom left quadrants and b) an aggregate of the top right and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by [[a]] the half weight of the load.

8. (Currently Amended) The scale according to claim 7, wherein the y-axis offset is calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and top right quadrants and b) an aggregate of the bottom left and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by [[a]] the half weight of the load.

9. (Currently Amended) The scale according to claim 6, wherein the platform is divided into quadrants comprising a top left quadrant, a to right quadrant, a bottom left quadrant, and a bottom right quadrant, the y-axis offset calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and top right quadrants and b) an aggregate of the bottom left and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by a half weight of the load.

- 10. (Original) The scale according to claim 6, wherein the deviation of the actual position of the load from the optimal position is determined by comparing the x-axis and y-axis offsets to a predetermined threshold value to determine whether a disproportionate quantity of the load's weight is on one of a left side and right side of the scale and on a top and a bottom of the scale.
- 11. (Original) The scale according to claim 1, wherein each of the load cells is integrated into a support, the supports for supporting the platform on a surface.
- 12. (Original) The scale according to claim 1, wherein the indicator comprises at least one of a visual and a sound indicator.
- 13. (Original) The scale according to claim 12, wherein the scale includes both the indicator and the display.
- 14. (Original) The scale according to claim 13, wherein the indicator is part of the display.
- 15. (Currently Amended) A method for accurately positioning a load on a platform of a weighing scale, the method comprising the steps of:

providing a plurality load cells, each of the load cells for sensing being positioned to sense a portion of the load's weight and outputting output an electrical signal containing data indicative of the sensed portion of the load's weight;

summing groups of the outputs to determine a total weight and a plurality of partial weights;

determining an actual position of the load on the platform, and how the actual position of the load on the platform deviates from an optimal weighing position using the determined total weight and at least two of the partial weights data contained in the electrical signal outputted by the load-cells; and

indicating that the load is in the optimal position.

- 16. (Original) The method according to claim 15, further comprising the step of determining a total weight of the load.
- 17. (Original) The method according to claim 16, wherein the total weight determining step includes summing the sensed weight portions.
- 18. (Original) The method according to claim 15, wherein the actual position determining step includes calculating an x-axis load position offset using the sensed weight portions.
- 19. (Currently Amended) The method according to claim 18, further comprising the step of dividing the platform into quadrants comprising a top left quadrant, a top right quadrant, a bottom left quadrant, and a bottom right quadrant, wherein the x-axis offset is calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and bottom left quadrants and b) an aggregate of the top right and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by a half weight of the load.

- 20. (Original) The method according to claim 18, wherein the actual position determining step includes comparing the x-axis offset to a predetermined threshold value to determine whether a disproportionate quantity of the load's weight is on one of a left side and a right side of the scale.
- 21. (Original) The method according to claim 15, wherein the actual position determining step includes calculating x-axis and y-axis load position offsets using the sensed weight portions.
- 22. (Currently Amended) The method according to claim 21, further comprising the step of dividing the platform into quadrants comprising a top left quadrant, a top right quadrant, a bottom left quadrant, and a bottom right quadrant, wherein the x-axis offset is calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and bottom left quadrants and b) an aggregate of the top right and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by a half weight of the load.

23. (Currently Amended) The method according to claim 22, wherein the y-axis offset is calculated by:

summing the sensed weight portions for one of a) an aggregate of the top left and top right quadrants and b) an aggregate of the bottom left and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by a half weight of the load.

24. (Currently Amended) The method according to claim 21, further comprising the step of dividing the platform into quadrants comprising a top left quadrant, a top right quadrant, a bottom left quadrant, and a bottom right quadrant, wherein the y-axis offset is calculated by:

summing the sensed weight portions of one of a) an aggregate of the top left and top right quadrants and b) an aggregate of the bottom left and the bottom right quadrants, of the scale;

subtracting a half weight of the load from the sum; and dividing the sum by a half weight of the load.

25. (Original) The method according to claim 21, wherein the actual position determining step includes comparing the x-axis and y-axis offsets to a predetermined threshold value to determine whether a disproportionate quantity of the load's weight is on one of a left side and right side of the scale and on a top and a bottom of the scale.

26. (Original) The method according to claim 15, further comprising the steps of:
displaying the deviation of the action position of the load from the optimal
weighing position; and
repositioning the load to the optimal weighing position.

27. (New) A method for weighing a load comprising:

providing a plurality load cells, each of the load cells being positioned to sense a portion of the load's weight and provide an electrical response indicative of the sensed portion of the load's weight;

determining partial weights corresponding to groupings of the load cells;

determining a deviation between the actual position of the load on the platform and an optimal weighing position using the determined partial weights;

providing an indication indicative of the determined deviation;

determining whether a time-out has occurred; and

where a time-out is determined to have occurred, providing an indication of total sensed weight regardless of the deviation.